- Q. Are you the same Gerald C. Hartman that has pre-filed direct testimony in this case?
- $3 \mid A$ . Yes, I am.

- 4 | Q. What is the purpose of your surrebuttal testimony in this 5 | proceeding, Mr. Hartman?
- A. The purpose of my surrebuttal testimony is to respond, on behalf of the City of Tega Cay, to certain aspects of the testimony and exhibits pre-filed by the Office of Regulatory Staff, or ORS, as well as certain aspects of the rebuttal testimony and discovery responses filed by Tega Cay Water Service, Inc., or TCWS.
  - Q. Mr. Hartman, have you reviewed the pre-filed testimony of Christina Stutz on behalf of ORS in this matter?
  - A. Yes, I have reviewed her testimony and the Audit Department Report she attached to her testimony.
    - Q. Are there any adjustments detailed in Ms. Stutz's testimony and the ORS Audit Report with which you agree?
    - A. Yes. I have incorporated a number of her audit adjustments in Surrebuttal Exhibit GCH-1, specifically Schedule 1 and Schedule 2. The net effect of her audit adjustments with which I agree are shown in the Other Adjustments Column and I have included references to the specific adjustments from her Audit Exhibit CAS-4. The net effect of each of her adjustments was calculated by taking her audit adjustment less the TCWS adjustment as filed, to arrive at the number included in the other column on Schedules 1 and 2 of Surrebuttal Exhibit GCH-1.

- Q. Mr. Hartman, have you reviewed the pre-filed testimony of Dr. Douglas H. Carlisle on behalf of ORS in this matter?
- 3 A. Yes, I have reviewed his testimony and exhibits attached to his testimony.
  - Q. Do you have any comments relative to Dr. Carlisle's recommendations for Return on Equity and overall Rate of Return?
  - A. Yes. While I have no significant disagreement with his methodology used to calculate the Return on Equity and Overall Rate of Return, I referenced the methodology used by the Florida Public Service Commission in my pre-filed direct testimony as a maximum. I have, however, calculated the impact of his recommended 7.99% overall Rate of Return, and will discuss that amount in the summary of this surrebuttal testimony.
- Q. Mr. Hartman, have you reviewed the rebuttal testimony of Bruce T.
  Haas on behalf of TCWS in this matter?
  - A. Yes, I have reviewed his rebuttal testimony and exhibits attached to his rebuttal testimony.
  - Q. Do you have any comments relative to Mr. Haas's rebuttal of your excessive water loss adjustment in your pre-filed direct testimony?
  - A. Yes. Beginning on the bottom of Page 7 of Mr. Haas's rebuttal testimony, he talks about the Bulk Water Contract with York County and the fact that TCWS pays only for the water that is actually sold by TCWS to the customers unless the amount of non-account water reaches the total which is derived by multiplying the water usage registered at customer meters by 115%. Mr. Haas further states that since TCWS began receiving

bulk service from York County, no additional charges have been imposed. As stated in my pre-filed direct testimony, I would consider any non-account water over 10% to be excessive. If TCWS only paid York County for the same amount of gallons as it charged to its customers, then there would be no adjustment to the operating expenses required, but TCWS has not furnished adequate data in response to City's discovery requests for the City to know whether TCWS just paid only for water used by its customers. I reserve my right to reconsider this adjustment upon receipt of any further data from TCWS or ORS.

- Q. Do you have any comments relative to Mr. Haas's rebuttal of your inflow and infiltration (I/I) adjustment in your pre-filed direct testimony?
- A. Yes. On page 11 of Mr. Haas's rebuttal testimony, he discusses the fact that the I&I percentage I relied upon was based upon a study conducted over 10 years ago at a time that the City of Tega Cay was interested in purchasing the system. I take exception to Mr. Haas's contention that the I&I was overstated in my previous study in an effort to devalue the system in favor of the City for which I performed the valuation. The I&I percentage calculated for that Study was not rebutted, nor has Mr. Haas provided competent, substantial evidence to do so. Mr. Haas discusses maintenance programs that theoretically would address issues with I&I, but does not offer a current I&I percentage lower than that shown in my pre-filed direct testimony. As a matter of fact, TCWS in its response to City's first set of interrogatories and request for

production of documents dated June 7, 2010, in which TCWS was specifically asked for current I&I percentages experienced, responded that "TCWS is not in possession of information responsive to this request". The calculation of I&I is fairly standard and I find it perplexing that TCWS did not perform this calculation if the I&I percentage they are experiencing is significantly lower than that shown in my pre-filed direct testimony and could be used to rebut my calculated percentages. Mr. Haas's failure to directly rebut my I&I calculation is indicative of a continued problem with I&I in the TCWS collection system resulting in excessive I&I. Since TCWS was unable to provide data which would allow a calculation of I&I lower than that included in my pre-filed direct testimony, I made no changes to my previous adjustments.

- Q. Mr. Hartman, have you reviewed the rebuttal testimony of Steve Lubertozzi on behalf of TCWS in this matter?
- A. Yes, I have reviewed his rebuttal testimony and exhibits attached to his rebuttal testimony.
- Q. Do you have any comments on his rebuttal testimony?
- A. Yes. To the extent that Mr. Lubertozzi's revised service revenue increase differs from that shown in my Surrebuttal Exhibit GCH-1, I would propose my service revenue numbers.
- 21 | Q. Would you summarize your position regarding the TCWS rate filing?
- A. Yes. Based on my review of certain aspects of the testimony and exhibits pre-filed by ORS as well as certain aspects of the rebuttal testimony and exhibits filed by TCWS, I have updated my overall revenue

recommendation for TCWS as follows:

The combined recommendation of the City of Tega Cay produces a revenue requirement decrease for water operations of \$14,482 and a revenue requirement decrease for sewer operations of \$117,304 from the total Test Year service revenues originally proposed by TCWS; Return on Rate Base decrease of 0.61% for water and 0.62% for sewer; and net income decrease of \$2,405 for water and \$16,018 for sewer, as summarized on Surrebuttal Exhibit GCH-1, Schedule 11. Therefore, based on my adjustments, the proposed increase to service revenues for water is \$64,908 and for sewer is \$42,308 resulting in Total Service Revenue Requirements for water of \$427,572 and for sewer of \$782,171. These calculations are based on my proposed maximum overall rate of return of 8.36% as discussed previously.

- Q. Have you calculated the effect on the overall service revenue increase based on Dr. Carlisle's proposed overall Rate of Return of 7.99%?
- A. Yes. I have prepared these calculations for illustrative purposes only, as Dr. Carlisle's proposed overall rate of return of 7.99% meets the criteria of being below the maximum of 8.36% I have calculated based on the FPSC leverage formula in my pre-filed direct testimony. Based on an overall rate of return of 7.99% and my adjustments as previously discussed in this surrebuttal testimony and my pre-filed direct testimony, the resulting increase to service revenue for water is \$62,586 and for sewer is \$27,083 resulting in Total Service Revenue Requirements for water of \$425,250 and for sewer of \$766,946. These calculations are summarized in Surrebuttal Exhibit GCH-1, Schedule 12.

1	Q. Mr. Hartman, have you reviewed the ORS Computation of Revenue
2	Requirement for the Test Year Ended December 31, 2009, shown as
3	Surrebuttal Exhibit GCH-2?
4	A. Yes, I have reviewed the information prepared by ORS. Based on this
5	Exhibit, utilizing a 7.99% overall rate of return from Dr. Carlisle and
6	incorporating the audit adjustments from Ms. Stutz, the proposed revenue
7	increase shown on the Exhibit is \$130,753, which is solely an ORS witness
8	testimony.
9	Q. Does this conclude your Surrebuttal Testimony?
10	A. Yes.
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12	End of Testimony
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### Schedule 1 Income Statement - Water Test Year Ended December 31, 2008 Based on Overall Rate of Return of 8.36%

			Р	roforma	Р	roforma	Pr	oposed	F	roforma		City	of Teg	a Cay Prop	osed	Adjustmen	ts		CAS-4
	P	er Books	Adj	ustments		Present	In	ncrease	P	roposed	Exces	ss Wtr Loss	Infla	tion Adj.		Other	As	Adjusted	Reference
Operating Revenues												0.00%	2	2.57%					<u> </u>
Service Revenues	\$	366,602	\$	(3,938)	\$	362,664	\$	79,390	\$	442,054	\$	-	\$	-	\$	(14,482)	\$	427,572	Α
Miscellaneous Revenues		8,057		-		8,057		-		8,057		-		-		8,090		16,147	В
Uncollectible Accounts		(2,588)		(5,243)		(7,831)		(1,714)		(9,545)		-		-		7,137		(2,408)	С
Total Operating Revenues	\$	372,071	\$	(9,181)	\$	362,890	\$	77,676	\$	440,566	\$	-	\$	-	\$	745	\$	441,311	
Operating Expenses																			
Salaries and Wages - Maintenance	\$	98,295	\$	(20,494)	\$	77,801	\$	_	\$	77.801	\$	-	\$	_	\$	11,981	\$	89.782	D
Salaries and Wages - General	*	52,854	*	(11,775)	*	41,079	*	-	*	41,079	*	-	*	_	*	-	*	41,079	_
Purchased Power		6,595		375		6,970		-		6,970		-		(179)		_		6,791	
Purchased Water/Sewer		(84,298)		80.152		(4,146)		_		(4,146)		-		-		_		(4,146)	
Maintenance and Repair		43,734		(6,771)		36,963		_		36,963		_		(948)		13,724		49,739	G
Maintenance Testing		22,413		(4,112)		18,301		_		18,301		_		(0.0)		(3,989)		14,312	H
Chemicals		11,735		668		12,403		_		12,403		_		(318)		(0,000)		12,085	
Transportation		19,085		(2,082)		17,003		_		17,003		_		(436)		_		16,567	
Operating Expenses Charged to Plant		(26,498)		(3,522)		(30,020)		_		(30,020)		_		(430)		2,882		(27,138)	K
Outside Services - Other		13,132		(3,322)		13,132		_		13,132		_		_		248		13,380	I.
Office Supplies & Other Office Expenses		20,291		1.155		21,446		_		21,446				(550)		(1,795)		19,101	N
Regulatory Commission Expenses		27,478		15,502		42,980		_		42,980		_		(330)		(1,793)		42,980	IN
Pension and Other Benefits		31,570		2,418		33,988		-		33,988		-		-		(629)		33,359	Р
		13,931		2,410		13,931		-		13,931		-		-		(029)		13,931	Г
Insurance Office Utilities		,		- 707		,		-				-		(227)		(4.005)		,	0
		12,422		707		13,129		-		13,129		-		(337)		(1,005)		11,787	Q
Miscellaneous	_	9,160	_	-	_	9,160			_	9,160	_		_	(0.700)	_	(727)	_	8,433	R
Subtotal	\$	271,899	\$	52,221	\$	324,120	\$	-	\$	324,120	\$	-	\$	(2,768)	\$	20,690	\$	342,042	
Depreciation		81,853		(22,241)		59,612		-		59,612		-		-		-		59,612	
Taxes Other than Income		42,653		9,609		52,262		893		53,155		-		-		(13,342)		39,813	T
Deferred Income Tax - Fed		(6,569)		-		(6,569)		-		(6,569)		-		-		-		(6,569)	
Deferred Income Tax - State		(1,017)		-		(1,017)		-		(1,017)		-		-		-		(1,017)	
Income Taxes - Federal		2,746		(20,401)		(17,655)		24,801		7,146		-		-		(1,238)		5,908	
Income Taxes - State		(1,945)		(788)		(2,733)		3,839		1,106		-		-		(191)		915	
Amortization of CIAC		(42,933)		10,646		(32,287)		-		(32,287)		-		-		-		(32,287)	
Subtotal	\$	74,788	\$	(23,175)	\$	51,613	\$	29,533	\$	81,146	\$	-	\$	-	\$	(14,772)	\$	66,374	
Total Operating Expenses	\$	346,687	\$	29,046	\$	375,733	\$	29,533	\$	405,266	\$	-	\$	(2,768)	\$	5,918	\$	408,416	
Net Operating Income	\$	25,384	\$	(38,227)	\$	(12,843)	\$	48,143	\$	35,300	\$		\$	2,768	\$	(5,173)	\$	32,895	
Interest During Construction	\$	(5,079)	\$	5,079	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	W
Interest on Debt		28,852		(15,011)		13,841		-		13,841		-		-				13,841	
Net Income	\$	1,611	\$	(28,295)	\$	(26,684)	\$	48,143	\$	21,459	\$	-	\$	2,768	\$	(5,173)	\$	19,054	

Note (1): Other Adjustment Column includes the net effect of adjustments made by ORS witness Stutz.

### Schedule 2 Income Statement - Sewer Test Year Ended December 31, 2008 Based on Overall Rate of Return of 8.36%

			Р	roforma	Р	roforma	P	roposed	F	Proforma		City	of Teg	a Cay Prop	osed	l Adjustmen	ts		CAS-4
	Pe	er Books	Adj	ustments		Present	li	ncrease	Р	roposed	18	kl Adjust	Infla	tion Adj.		Other	As	Adjusted	Reference
Operating Revenues												23.00%		2.57%					
Service Revenues	\$	736,879	\$	2,984	\$	739,863	\$	159,612	\$	899,475	\$	-	\$	-	\$	(117,304)	\$	782,171	Α
Miscellaneous Revenues		16,195		-		16,195		-		16,195		-		-		(4,670)		11,525	В
Uncollectible Accounts		(5,202)		(2,524)		(7,726)		(1,667)		(9,393)		-		-		6,309		(3,084)	С
Total Operating Revenues	\$	747,872	\$	460	\$	748,332	\$	157,945	\$	906,277	\$	-	\$	-	\$	(115,665)	\$	790,612	
Operating Expenses																			
Salaries and Wages - Maintenance	\$	96,980	\$	(20,220)	\$	76,760	\$	_	\$	76,760	\$	(17,655)	\$	_	\$	11,823	\$	70,928	D
Salaries and Wages - General	*	52,146	Ψ	(11,618)	Ψ.	40,528	Ψ.	_	Ψ	40,528	*	(,000)	Ψ	_	Ψ	,020	Ψ	40,528	_
Purchased Power		48,284		2,747		51,031		_		51,031		(11,436)		(1,309)		_		38,286	
Purchased Water/Sewer		-		-,, .,		-		_		-		(11,100)		(1,000)		_		-	
Maintenance and Repair		186,331		1,466		187,797				187,797		(42,085)		(4,818)		5,394		146,288	G
Maintenance Testing		14,967		(4,057)		10,910		_		10,910		(2,509)		(4,010)		(3,934)		4,467	H
Chemicals		11,578		659		12,237		_		12,237		(2,742)		(314)		(0,504)		9,181	
Transportation		18,830		(2,054)		16,776				16,776		(2,142)		(430)		_		16,346	
Operating Expenses Charged to Plant		(26,144)		(3,475)		(29,619)		_		(29,619)				(430)		2,848		(26,771)	K
Outside Services - Other		12,957		(3,473)		12,957		-		12,957		(2,980)		_		244		10,221	L
Office Supplies & Other Office Expenses		20,020		1,139		21,159		-		21,159		(2,900)		(543)		(1,771)		18,845	N
Regulatory Commission Expenses		27,110		15,294		42,404		-		42,404		-		(343)		(1,771)		42,404	IN
Pension and Other Benefits		31,148		2,386		33,534		-		33,534		-		-		(621)		32,913	Р
		,				,		-		,		-		-		(621)		,	Р
Insurance		13,744		- 697		13,744		-		13,744		-		(222)		(004)		13,744	0
Office Utilities		12,256		697		12,953		-		12,953		(0.070)		(332)		(991)		11,630	Q
Miscellaneous	_	9,038	_	- (47.000)	_	9,038	_		_	9,038	_	(2,079)	_	(7.740)	_	(717)	_	6,242	R
Subtotal	\$	529,245	\$	(17,036)	\$	512,209	\$	-	\$	512,209	\$	(81,486)	\$	(7,746)	\$	12,275	\$	435,252	
Depreciation		210,009		(68,540)		141,469		-		141,469		-		-		-		141,469	
Taxes Other than Income		48,048		9,480		57,528		1,796		59,324		-		-		(13,162)		46,162	Т
Deferred Income Tax - Fed		(13,204)		-		(13,204)		-		(13,204)		-		-		-		(13,204)	
Deferred Income Tax - State		(2,043)		-		(2,043)		-		(2,043)		-		-		-		(2,043)	
Income Taxes - Federal		5,520		8,797		14,317		50,436		64,753		-		-		(8,252)		56,501	
Income Taxes - State		(3,910)		6,126		2,216		7,807		10,023		-		-		(1,277)		8,746	
Amortization of CIAC		(130,417)		32,474		(97,943)				(97,943)				-		-		(97,943)	
Subtotal	\$	114,003	\$	(11,663)	\$	102,340	\$	60,039	\$	162,379	\$	-	\$	-	\$	(22,690)	\$	139,689	
Total Operating Expenses	\$	643,248	\$	(28,699)	\$	614,549	\$	60,039	\$	674,588	\$	(81,486)	\$	(7,746)	\$	(10,415)	\$	574,941	
Net Operating Income	\$	104,624	\$	29,159	\$	133,783	\$	97,906	\$	231,689	\$	81,486	\$	7,746	\$	(105,250)	\$	215,671	
Interest During Construction	\$	(19,815)	\$	19,815	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	W
Interest on Debt		113,906		(23,161)		90,745		-		90,745		-		-				90,745	
Net Income	\$	10,533	\$	32,505	\$	43,038	\$	97,906	\$	140,944	\$	81,486	\$	7,746	\$	(105,250)	\$	124,926	

Note (1): Other Adjustment Column includes the net effect of adjustments made by ORS witness Stutz.

Schedule 3
Income Statement - Combined
Based on Overall Rate of Return of 8.36%

	As	Pres	sented by T	CW	s	P	roposed	E	Effect of
	Water		Sewer		ombined	C	hanges	Propo	sed Changes
Operating Revenues									
Service Revenues	\$ 442,054	\$	899,475	\$	1,341,529	\$	(131,786)	\$	1,209,743
Miscellaneous Revenues	8,057		16,195		24,252		3,420		27,672
Uncollectible Accounts	(9,545)		(9,393)		(18,938)		13,446		(5,492)
Total Operating Revenues	\$ 440,566	\$	906,277	\$	1,346,843	\$	(114,920)	\$	1,231,923
Operating Expenses									
Salaries and Wages - Maintenance	\$ 77,801	\$	76,760	\$	154,561	\$	6,149	\$	160,710
Salaries and Wages - General	41,079		40,528		81,607		-		81,607
Purchased Power	6,970		51,031		58,001		(12,924)		45,077
Purchased Water/Sewer	(4,146)		-		(4,146)		-		(4,146)
Maintenance and Repair	36,963		187,797		224,760		(28,733)		196,027
Maintenance Testing	18,301		10,910		29,211		(10,432)		18,779
Chemicals	12,403		12,237		24,640		(3,374)		21,266
Transportation	17,003		16,776		33,779		(866)		32,913
Operating Expenses Charged to Plant	(30,020)		(29,619)		(59,639)		5,730		(53,909)
Outside Services - Other	13,132		12,957		26,089		(2,488)		23,601
Office Supplies & Other Office Expenses	21,446		21,159		42,605		(4,659)		37,946
Regulatory Commission Expenses	42,980		42,404		85,384		-		85,384
Pension and Other Benefits	33,988		33,534		67,522		(1,250)		66,272
Insurance	13,931		13,744		27,675		-		27,675
Office Utilities	13,129		12,953		26,082		(2,665)		23,417
Miscellaneous	9,160		9,038		18,198		(3,523)		14,675
Subtotal	\$ 324,120	\$	512,209	\$	836,329	\$	(59,035)	\$	777,294
Depreciation	59,612		141,469		201,081		-		201,081
Taxes Other than Income	53,155		59,324		112,479		(26,504)		85,975
Deferred Income Tax - Fed	(6,569)		(13,204)		(19,773)		-		(19,773)
Deferred Income Tax - State	(1,017)		(2,043)		(3,060)		-		(3,060)
Income Taxes - Federal	7,146		64,753		71,899		(9,490)		62,409
Income Taxes - State	1,106		10,023		11,129		(1,468)		9,661
Amortization of CIAC	(32,287)		(97,943)		(130,230)		-		(130,230)
Subtotal	\$ 81,146	\$	162,379	\$	243,525	\$	(37,462)	\$	206,063
Total Operating Expenses	\$ 405,266	\$	674,588	\$	1,079,854	\$	(96,497)	\$	983,357
Net Operating Income	\$ 35,300	\$	231,689	\$	266,989	\$	(18,423)	\$	248,566
Interest During Construction	\$ -	\$	-	\$	-	\$	-	\$	-
Interest on Debt	13,841		90,745		104,586		-		104,586
Net Income	\$ 21,459	\$	140,944	\$	162,403	\$	(18,423)	\$	143,980

# Schedule 4 Balance Sheet Based on Overall Rate of Return of 8.36%

		2008	
Assets	Water	Wastewater	Combined
Utility Plant			
Utility Plant in Service	\$ 2,653,429	\$ 9,819,202	\$ 12,472,631
Accumulated Depreciation	(740,755)	(2,861,197)	(3,601,952)
Subtotal	\$ 1,912,674	\$ 6,958,005	\$ 8,870,679
Plant Acquisition Adjustment	-	-	-
Construction Work in Progress	1,522	364,680	366,202
Net Utility Plant	\$1,914,196	\$ 7,322,685	\$ 9,236,881
Current and Accrued Assets			
Cash	\$ (78)		\$ (78)
Accounts Receivable (Net)	(739,886)		(739,886)
Other	162,691		162,691
Subtotal	\$ (577,273)		\$ (577,273)
Defermed Observes	Ф (400 F00)		Ф (400 F00)
Deferred Charges	\$ (183,509)		\$ (183,509)
Total Assets	\$ 1,153,414		\$ 8,476,099
	<b>V</b> 1,100,111		<b>4</b> 0, 0,000
Liabilities			
Equity Capital			
Common Stock & Pd in Capital	\$ 2,694,890		\$ 2,694,890
Retained Earnings	(975,751)		(975,751)
Net Equity Capital	\$1,719,139	\$ -	\$ 1,719,139
Current and Accrued Liabilities			
Accounts Payable	\$ 72,266		\$ 72,266
Accts Payable to Assoc. Co.	(310,782)		(310,782)
Customer Deposits	22,445		22,445
Accrued Taxes	1,289		1,289
Accrued Interest	28,782		28,782
Subtotal	\$ (186,000)	\$ -	\$ (186,000)
Deferred Revenues	<b>c</b>		¢
Advances for Construction	\$ -		\$ -
Contrib. in Aid of Construc. (CIAC)	1,576,239	4,749,881	6,326,120
Deferred Income Taxes	616,840	4,143,001	616,840
Deletieu ilicome Taxes	010,040		010,040
Total Liabilities	\$ 3,726,218	\$ 4,749,881	\$ 8,476,099

# Schedule 5 Rate Base and Rate of Return - Water Based on Overall Rate of Return of 8.36%

				As Presented	in Fil	ing			Cit	y of Tega		
	Per Book	s	Proforma Adjustments	As Adjusted		roposed ncrease	Prop	Effect of osed Increase	-	Proposed ustments	Pro	Effect of cosed Change
Rate Base			_			_		_		_		
Net Operating Income	\$ 25,38	34	\$ (38,227)	\$ (12,843)	\$	48,143	\$	35,300	\$	(2,405)	\$	32,895
Gross Plant in Service	\$ 2,653,42	9	\$ 340,735	\$ 2,994,164	\$	-	\$	2,994,164	\$	-	\$	2,994,164
Accumulated Depreciation	(740,75	55)	44,427	(696,328)		-		(696,328)		-		(696,328)
Net Plant in Service	\$ 1,912,67	'4	\$ 385,162	\$ 2,297,836	\$	-	\$	2,297,836	\$	-	\$	2,297,836
Cash Working Capital	\$ 39,31	9	\$ 7,729	\$ 47,048	\$	-	\$	47,048	\$	-	\$	47,048
Contrib. in Aid of Construc. (CIAC)	(1,576,23	9)	(10,646)	(1,586,885)		-		(1,586,885)		-		(1,586,885)
Advances for Construction	-	•	-	-		-		-		-		-
Deferred Income Taxes	(338,72	29)	-	(338,729)		-		(338,729)		-		(338,729)
Customer Deposits	(25,78	86)	-	(25,786)		-		(25,786)		-		(25,786)
Total Rate Base	\$ 11,23	9	\$ 382,245	\$ 393,484	\$	-	\$	393,484	\$	-	\$	393,484
Return on Rate Base	225.86	6%		-3.26%				8.97%				8.36%

# Schedule 6 Rate Base and Rate of Return - Sewer Based on Overall Rate of Return of 8.36%

			As	Presented in	n Fili	ng			Cit	y of Tega		
	Per Books	roforma justments		As Adjusted		roposed ncrease	Prop	Effect of osed Increase	-	Proposed justments	Proj	Effect of cosed Change
Rate Base												
Net Operating Income	\$ 104,624	\$ 29,159	\$	133,783	\$	97,906	\$	231,689	\$	(16,018)	\$	215,671
Gross Plant in Service	\$ 9,819,202	\$ 298,470	\$	10,117,672	\$	-	\$	10,117,672	\$	-	\$	10,117,672
Accumulated Depreciation	(2,861,197)	338,008		(2,523,189)		-		(2,523,189)		-		(2,523,189)
Net Plant in Service	\$ 6,958,005	\$ 636,478	\$	7,594,483	\$	-	\$	7,594,483	\$	-	\$	7,594,483
Cash Working Capital	\$ 72,161	\$ (944)	\$	71,217	\$	-	\$	71,217	\$	-	\$	71,217
Contrib. in Aid of Construc. (CIAC)	(4,749,881)	(32,474)		(4,782,355)		-		(4,782,355)		-		(4,782,355)
Advances for Construction	-	-		-		-		-		-		-
Deferred Income Taxes	(278,111)	-		(278,111)		-		(278,111)		-		(278,111)
Customer Deposits	(25,441)	-		(25,441)		-		(25,441)		-		(25,441)
Total Rate Base	\$ 1,976,733	\$ 603,060	\$	2,579,793	\$	-	\$	2,579,793	\$	-	\$	2,579,793
Return on Rate Base	5.29%			5.19%				8.98%				8.36%

# Schedule 7 Rate Base and Rate of Return - Combined Based on Overall Rate of Return of 8.36%

	As	Presented by TO	cws	Proposed	Effect of
	Water	Sewer	Combined	Changes	Proposed Changes
Rate Base					
Net Operating Income	\$ 35,300	\$ 231,689	\$ 266,989	\$ (18,423)	\$ 248,566
Gross Plant in Service	\$ 2,994,164	\$ 10,117,672	\$ 13,111,836	\$ -	\$ 13,111,836
Accumulated Depreciation	(696,328)	(2,523,189)	(3,219,517)	-	(3,219,517)
Net Plant in Service	\$ 2,297,836	\$ 7,594,483	\$ 9,892,319	\$ -	\$ 9,892,319
Cash Working Capital	\$ 47,048	\$ 71,217	\$ 118,265	\$ -	\$ 118,265
Contrib. in Aid of Construc. (CIAC) Advances for Construction	(1,586,885)	(4,782,355)	(6,369,240)	-	(6,369,240)
Deferred Income Taxes	(338,729)	(278,111)	(616,840)	_	(616,840)
Customer Deposits	(25,786)	(25,441)	(51,227)	-	(51,227)
Total Rate Base	\$ 393,484	\$ 2,579,793	\$ 2,973,277	\$ -	\$ 2,973,277
Return on Rate Base	8.97%	8.98%	8.98%		8.36%

# Schedule 8 Proposed Revenues - Water Based on Overall Rate of Return of 8.36%

Bill Code	Description	Usag	e Charge		BFC	Gallonage	Units	_	an - Dec evenues
AS PROPO	SED IN TCWS FILING (Pe	r TCWS	Filing, So	hedu	le E)				
All Subs									
48501	5/8" Residential Water	\$	2.06	\$	9.21	108,758,466	21,911	\$	425,948
48502	5/8" Commercial Water	\$	2.06	\$	9.21	574,460	191		2,943
48505	1" Commercial Water	\$	2.06	\$	9.21	273,520	88		1,374
48506	2" Commercial Water	\$	2.06	\$	9.21	794,000	11		1,737
48540	Hydrant Rental	\$	-	\$	10.15		990		10,051
						110,400,446	23,191	\$	442,054
ASED ON	CITY OF TEGA CAY REC	OMME	NDED ADJ	JUSTN	MENTS				
All Subs									
48501	5/8" Residential Water	\$	1.99	\$	8.91	108,758,466	21,911	\$	411,994
48502	5/8" Commercial Water	\$	1.99	\$	8.91	574,460	191		2,847
48505	1" Commercial Water	\$	1.99	\$	8.91	273,520	88		1,329
48506	2" Commercial Water	\$	1.99	\$	8.91	794,000	11		1,680
48540	Hydrant Rental	\$	-	\$	9.82		990		9,722
						110,400,446	23,191	\$	427,572

# Schedule 9 Proposed Revenues - Sewer Based on Overall Rate of Return of 8.36%

Bill Code	Description	Usage	Charge		Rate	Gallonage	Units	_	an - Dec evenues
AS PROPO	SED IN TCWS FILING								
All Subs									
48521	5/8" Residential Sewer	\$	-	\$	40.12	-	21,899	\$	878,690
48522	5/8" Commercial Sewer	\$	-	\$	40.12	-	90		3,611
48523	1" Commercial Sewer	\$	-	\$	40.12	-	26		1,043
48524	2" Commercial Sewer	\$	-	\$	40.12	-	402		16,130
						-	22,417	\$	899,475
BASED ON	CITY OF TEGA CAY REC	OMMEN	IDED AD	JUSTI	MENTS				
All Subs									
48521	5/8" Residential Sewer	\$	-	\$	34.89	-	21,899	\$	764,097
48522	5/8" Commercial Sewer	\$	-	\$	34.89	-	90		3,140
48523	1" Commercial Sewer	\$	-	\$	34.89	-	26		907
48524	2" Commercial Sewer	\$	-	\$	34.89	-	402		14,027
						-	22,417	\$	782,171

### Schedule 10 Average Bill

### **Present and Proposed Rates**

### (Based on City of Tega Cay Recommended Adjustments) Based on Overall Rate of Return of 8.36%

			Curre	nt Rate	•	Aver	age			Incre	ase	Date of Last Rate
Bill Code	Description	U	sage		Base	Usage		Bill	Α	mount	Percent	Increase
WATER - C	URRENT											
All Subs												
48501	5/8" Residential Water	\$	1.69	\$	7.56	4,504.97	\$	15.17				10/17/2006
48502	5/8" Commercial Water	\$	1.69	\$	7.56	2,736.56	\$	12.18				10/17/2006
48505	1" Commercial Water	\$	1.69	\$	7.56	1,340.71	\$	9.83				10/17/2006
48506	2" Commercial Water	\$	1.69	\$	7.56	86,200.00	\$	153.24				10/17/2006
48540	Hydrant Rental	\$	-	\$	8.33	-	\$	8.33				10/17/2006
WATER - PI	ROPOSED BASED ON CIT	Y OF T	EGA CAY	REC	OMMENDED	ADJUSTMENT	rs					
All Subs												
48501	5/8" Residential Water	\$	1.99	\$	8.91	4,504.97	\$	17.89	\$	2.72	17.90%	
48502	5/8" Commercial Water	\$	1.99	\$	8.91	2,736.56	\$	14.36	\$	2.18	17.89%	
48505	1" Commercial Water	\$	1.99	\$	8.91	1,340.71	\$	11.58	\$	1.76	17.88%	
48506	2" Commercial Water	\$	1.99	\$	8.91	86,200.00	\$	180.71	\$	27.47	17.93%	
48540	Hydrant Rental	\$	-	\$	9.82	-	\$	9.82	\$	1.49	17.89%	
SEWER - C	URRENT											
All Subs												
48521	5/8" Residential Sewer	\$	-	\$	33.02	4,504.97	\$	33.02				10/17/2006
48522	5/8" Commercial Sewer	\$	-	\$	33.02	2,736.56	\$	33.02				10/17/2006
48523	1" Commercial Sewer	\$	-	\$	33.02	1,340.71	\$	33.02				10/17/2006
48524	2" Commercial Sewer	\$	-	\$	33.02	86,200.00	\$	33.02				10/17/2006
SEWER - PI	ROPOSED BASED ON CIT	Y OF T	EGA CAY	REC	OMMENDED	ADJUSTMENT	ΓS					
All Subs												
48521	5/8" Residential Sewer	\$	_	\$	34.89	4,504.97	\$	34.89	\$	1.87	5.67%	
48522	5/8" Commercial Sewer	\$	-	\$ \$	34.89	2,736.56	Ψ \$	34.89	φ \$	1.87	5.67%	
48523	1" Commercial Sewer	\$	-	\$ \$	34.89	1,340.71	Ψ \$	34.89	φ \$	1.87	5.67%	
48524	2" Commercial Sewer	э \$	-	э \$	34.89	86,200.00	φ \$	34.89	Ф \$	1.87	5.67%	

# Schedule 11 Summary Adjustments TCWS Filing vs. City of Tega Cay Based on Overall Rate of Return of 8.36%

### **SERVICE REVENUE**

		Prop	osed Increas	se			F	Profe	orma Propos	ed	
Description	 Water	W	astewater		Total	_	Water	W	astewater		Total
TCWS	\$ 79,390	\$	159,612	\$	239,002	\$	442,054	\$	899,475	\$	1,341,529
City of Tega Cay	 64,908		42,308		107,216		427,572		782,171		1,209,743
Difference - Amount Difference - Percent	\$ (14,482) -18.24%	\$	(117,304) -73.49%	\$	(131,786) -55.14%	\$	(14,482) -3.28%	\$	(117,304) -13.04%	\$	(131,786) -9.82%

### **RETURN ON RATE BASE**

	Percentage			Dollar Amount							
Description	Water Wastewater		_	Water		Wastewater		Total			
TCWS	8.97%	8.98%	\$	35,300	\$	231,689	\$	266,989			
City of Tega Cay	8.36%	8.36%		32,895		215,671		248,566			
Difference	-0.61%	-0.62%	\$	(2,405)	\$	(16,018)	\$	(18,423)			

### **AVERAGE RESIDENTIAL BILL (5/8" Meter)**

	Average Bill Amount						Percentage Increase				
Description	 <b>Nater</b>	Wa	stewater		Total	Water	Wastewater	Total			
TCWS	\$ 18.49	\$	40.12	\$	58.61	21.90%	21.50%	21.62%			
City of Tega Cay	 17.89		34.89		52.78	17.90%	5.67%	9.53%			
Difference	\$ (0.60)	\$	(5.23)	\$	(5.83)	-4.00%	-15.83%	-12.10%			

# Schedule 12 Summary Adjustments TCWS Filing vs. City of Tega Cay Based on Dr. Carlisle Overall Rate of Return of 7.99%

### **SERVICE REVENUE**

	Proposed Increase						Proforma Proposed					
Description		Water	W	astewater		Total		Water	W	astewater		Total
TCWS	\$	79,390	\$	159,612	\$	239,002	\$	442,054	\$	899,475	\$	1,341,529
City of Tega Cay		62,586		27,083		89,669		425,250		766,946		1,192,196
Difference - Amount	\$	(16,804)	\$	(132,529)	\$	(149,333)	\$	(16,804)	\$	(132,529)	\$	(149,333)
Difference - Percent		-21.17%		-83.03%		-62.48%		-3.80%		-14.73%		-11.13%

### **RETURN ON RATE BASE**

		Dollar Amount							
Description	Water Wastewater		_	Water Waster		astewater		Total	
TCWS	8.97%	8.98%	\$	35,300	\$	231,689	\$	266,989	
City of Tega Cay	7.99%	7.99%		31,439		206,125		237,564	
Difference	-0.98%	-0.99%	\$	(3,861)	\$	(25,564)	\$	(29,425)	

### AVERAGE RESIDENTIAL BILL (5/8" Meter)

	Average Bill Amount						Percentage Increase					
Description		Nater	Was	stewater		Total	Water	Wastewater	Total			
TCWS	\$	18.49	\$	40.12	\$	58.61	21.90%	21.50%	21.62%			
City of Tega Cay		17.79		34.21		52.00	17.26%	3.61%	7.92%			
Difference	\$	(0.70)	\$	(5.91)	\$	(6.61)	-4.64%	-17.89%	-13.71%			



### LEGAL DEPARTMENT FAX TRANSMITTAL SHEET

Florence P. Belser, General Counsel
Nanette S. Edwards, Chief Counsel & Dir. Of Legal Services
C. Lessie Hammonds
Shannon Bowyer Hudson
Jeffery M. Nelson
Shealy Boland Reibold

Office of Regulatory Staff 1401 Main Street, Suite 900 Columbia, South Carolina 29201 Telephone: 737-0877 Fax: 737-0895

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Tega Cay Water Service, Inc. Computation of Revenue Requirement Test Year Ended December 31, 2009

Line No.	Description	Requested	Weighted Cost of Debt				
	(Col. 1)	(Ċol. 2)	Description	Capital Structure	Ratio	Debt Cost	Overall Cost
1 2	Jurisdictional Rate Base Required Rate of Return	2,979,491 7,99%	Long-Term Debt	180,000.000	53.30%	6.60%	3.52%
3	Required Return	777 004	Common Equity	157,737,014	46.70%	9.57%	4.47%
4	Actual Return Earned	238,061 158,095	Totals	337,737,014	100.00%		7.99%
5	Required Increase to Return	79,966					
6	Factor to Remove Customer Growth						
7	Additional Return Required from Revenue Increase	79,966					
В	Composite Tax Factor	0.61158					
9	Required Revenue Increase	130,753	ī.				
10	Verification of Proposed Increase Proposed Revenue Increase	130,753					
	<u>Additional Expenses</u>						
11	Gross Receipts & PSC Support Tax @ .0095919	1.254					
12	State Income Tax @ 5%	6,475					
13	Federal Income Tax @ 35%	43,058	200 05.				
14	Total Taxes	(50.787)					
15	Additional Return	70,000	> 130,7	22			
	Additional Customer Growth	79,966	)				
17	Total Additional Return	79,966					
18	Earned Return	158,095					
19	Total Return as Adjusted	238,061					
20	Rate Base	2,979,491					
21	Rate of Return =	7.99%					